



## HASTELLOY™ C-2000

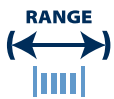
### Key Features

- Developed to resist corrosion in a wider range of media
- Resistant to an extensive range of corrosive chemicals including sulphuric, hydrochloric & hydrofluoric acids
- Superior pitting resistance and crevice corrosion resistance to Hastelloy C-276
- Excellent corrosion resistance to reducing media
- Good oxidising resistance

### IMPORTANT

We will manufacture to your required mechanical properties.

## key advantages to you, *our customer*



0.025mm to 21mm  
(.001" to .827")



Order 3m to 3t  
(10 ft to 6000 Lbs)



Delivery:  
within 3 weeks



Wire to your spec



E.M.S available



Technical support

### HASTELLOY™ C-2000 available in:-

- Round wire
- Bars or lengths
- Flat wire
- Shaped wire
- Rope/Strand

### Packaging

- Coils
- Spools
- Bars or lengths



\*Trade name of Haynes International.

# HASTELLOY™ C-2000



Chemical Composition			Specifications	Key Features	Typical Applications
Element	Min %	Max %	ASTM B574 ASTM B575 ASTM B619	Developed to resist corrosion in a wider range of media  Resistant to an extensive range of corrosive chemicals including sulphuric, hydrochloric & hydrofluoric acids	Chemical processing
Cr	22.00	24.00			
Mo	15.00	17.00			
Fe	-	3.00	Designations	Superior pitting resistance and crevice corrosion resistance to Hastelloy C-276  Excellent corrosion resistance to reducing media  Good oxidising resistance	
C	-	0.010	W.Nr. 2.4675 UNS N06200 AWS 055		
Si	-	0.080			
Co	-	2.00			
Mn	-	0.50			
P	-	0.025			
S	-	0.010			
Cu	1.30	1.90			
Al	-	0.50			
Ni	BAL				

<b>Density</b>	8.5 g/cm <sup>3</sup>	0.307 lb/in <sup>3</sup>
<b>Melting Point</b>	1399 °C	2550 °F
<b>Coefficient of Expansion</b>	12.4 µm/m °C (20 – 100 °C)	6.9 x 10 <sup>-6</sup> in/in °F (70 – 212 °F)
<b>Modulus of Rigidity</b>	79 kN/mm <sup>2</sup>	11458 ksi
<b>Modulus of Elasticity</b>	206 kN/mm <sup>2</sup>	29878 ksi

Heat Treatment of Finished Parts					
Condition as supplied by Alloy Wire	Type	Temperature		Time (Hr)	Cooling
		°C	°F		
Annealed or Spring Temper	Stress Relieve	400 – 450	750 – 840	2	Air

Properties				
Condition	Approx. tensile strength		Approx. operating temperature	
	N/mm <sup>2</sup>	ksi	°C	°F
Annealed	700 – 1000	102 – 145	-200 to +400	-330 to +750
Spring Temper	1300 – 1600	189 – 232	-200 to +400	-330 to +750

The above tensile strength ranges are typical. If you require different please ask.